Email id:tutormines2014@gmail.com

LAB ASSIGNMENT

Concept: Classes and Objects

Objective: At the end of assignments, participants will able to implement Classes and Objects.

Problems:

Q1: WAP to input rollno, name and marks in five subjects and calculate the total and marks. Define different functions to input, calculate and display the data.

Q2: WAP to declare a class with the following specification

Class name **Employee**

(Data members) Private:

empCode integer empName String basicSalary float

float 40% of basic salar hra float 20% of basic salary da 10% of basic salary float ta

Gross salary float basicSalary + hra + da + ta

20 % of gross salary float tax Pf 10% of gross salary float gross salary – (tax + pf) netSalary float

(Member functions) Public:

void input() - function to input the values for ecode, ename and basic salary

- function to calculate all other values void calculate() - function to display the all the values. void display()

Now perform the following operations:

(1) Take an object of the given class, input, calculate and display values for one employee.

Q3: WAP to declare a class with the following specification

TaxPayer class name

Data members(private)

panNumber

String name float income

float tax

Member functions

Trainer: Sanjay Kumar

input() to input the data display() to display the data

calculateTax() to calculate the tax.

Tax is calculated according to the following rates:

Income tax
< = 100000 0%
100001 to 200000 10%
200001 to 500000 15%
>500000 20%

WAP to declare the object of the above class, input the data, calculate the tax and display the data.

Q4: Declare a class student with the following specification

Class name Student

Data members(private)

int rollNo -roll number

String name - name

float marks[5] - marks in 5 subjects

float total -total marks
float average -average mark

String grade - grade according to the average marks

Member functions(public)

void dispData() -to display the data.

Grades are calculated according to following:-

Average Grade
>=75 A
60-74 B
40-59 C
<40 fail

Now perform the following operations:

(1) Take an object of the given class, input, calculate and display values for one student.